

# Director's Report

## Maintenance—Keeping Things Humming

Maintenance crews are working on various projects throughout the system including the CIP projects.

In Bath Twp, crews installed a structure to hold corrosion control chemicals at LS 213 including an extended concrete pad and conduits. Detention times can be lengthy from Bath and corrosion control methods are essential to minimize structure damage. Corrosion and odor go hand in hand. Crews installed a repurposed odor scrubber on Wood Rd on an air relief valve known to have odor issues. This is working well and we have received positive feedback from residents in the area.

The Bath Twp LS 206 rehab, started last year, was a success story for the SCCMUA crew. Our crew did an outstanding job transforming this station at minimal cost. This project was substantially completed at the end of last year with the final touches finished this spring. This project highlights the talent that we have on staff and the ability to find new ways to solve issues cost effectively.

Most of the components for the re-

hab on LS 402 in Watertown Twp, have arrived and work is beginning to install a bypass provision. This will allow for the station pumps to be bypassed for maintenance or emergency needs. The painting is planned for next month. Four stations in the system are being re-coated to help maintain their integrity.

Breakers were installed at LS 301 in the City. This is the main station for a large portion of the City. SCCMUA will also be installing new check valves at this station to help eliminate long run times, increasing efficiency.

Parts have been arriving for the CIP work planned for DeWitt Twp. stations 103, 106, and 109. As soon as all the parts are on hand, these projects will begin.



LS 206—Before



LS 206—After

## Administration

In the Lucity database, many data points are tracked for preventive maintenance and conditional replacement analysis. These data points have been traditionally handled by multiple hands. We are conducting testing within the Lucity software system to have this data entered by the operator on-site, utilizing a tablet with a mobile connection. We will be able to eliminate the duplicated effort, thus saving time and eliminating errors.

The 2019 budget has been reviewed by both the Design and Policy and Budget and Finance committees. The B&F committee has recommended that the budget be forwarded to the Board.

In a continuing effort to get information out via social media and the webpage, we are increasing the amount of information we put out utilizing these two markets. We will be including useful construction updates as well as educational pieces about sewers and their proper use. Our web page has been updated with links to municipal construction work. We will continue efforts to minimize the flushing of personnel wipes and grease in the drains.

**Southern Clinton  
County Municipal  
Utilities  
Authority**

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## Process—Making it Clean

All parameters of the NPDES permit were met.

The stripping process has begun on the RBC project. This process takes a little time, as we stop the influent food source and let the biomass slowly slough off. After the biomass has sufficiently sloughed off, the tank will be pumped and cleaned. Work is done in this order to avoid suspending the RBC's in the air without the added buoyancy of water and the additional weight of the biomass.

The effluent water system is a critical part of our process. This is used to deliver chemicals and to clean tanks in the plant. There are three pumps in the system. One of the motors was replaced this month, as it had failed beyond repair.

During last month's secondary sludge project, other chemical piping was found to be weak and brittle. This brittle pipe is used to feed process chemicals into our secondary system. Due to the corrosive nature, the PVC pipe had become brittle and prone to breakage. SCCMUA staff replaced the feed system in the chemical room which was

not only brittle but nearly 50% plugged. A flushing port was installed to periodically flush the system to avoid solid settlement in the chemical feed system.

In the metering chamber, flows from the municipalities come in through individual lines as well as what is combined at LS 501 and are metered prior to combining in the wet well. Due to the design, there is an air gap at the top of the pipe before the pipe is reduced into the flow meter. The air gap is exposed most of the time, except during high flow events. This increases corrosion. These pipes, per



Repaired Pipe –City Influent

original design, did not offer any corrosion resistance. The internal atmosphere is conducive to corrosion which has begun to cause failures in the tops of some of the

piping. Pipe patches have been installed to prevent the pipe from leaking and permanent repair and/or replacement options are being looked at, as this will need to be addressed in the future.

Many annual maintenance items happen throughout the year at SCCMUA. A critical task is the secondary clarifier maintenance. Our clarifiers have a weight actuated arm to adjust to the square tanks. These arms are operated by weights connected by ropes and pulleys and operated beneath the water level. When these fail, solids build in the corners which will billow to the surface as they degrade. This causes problems along the weirs and into the tertiary filter system. Maintenance has been completed in our East clarifier and it is ready to be put online when the other clarifier is taken offline to be serviced.

## Inspections—The Scoop on the Poop

Miss dig requests have picked up with construction season in full swing. This past month, there were 580 tickets with 89 that needed to be marked.

In DeWitt Twp, the Quarry project continues with lateral completion to the clean outs; testing still needs to be completed.

Bath school work is continuing. Several building leads will be removed. Crews have installed new lines into the Elementary school.

Lakeside subdivision (Watertown Twp) plans have been reviewed for the next phases.

SCCMUA staff has reviewed manholes for planned road work for Clinton County Road Commission projects with no extensive manhole work needed.

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